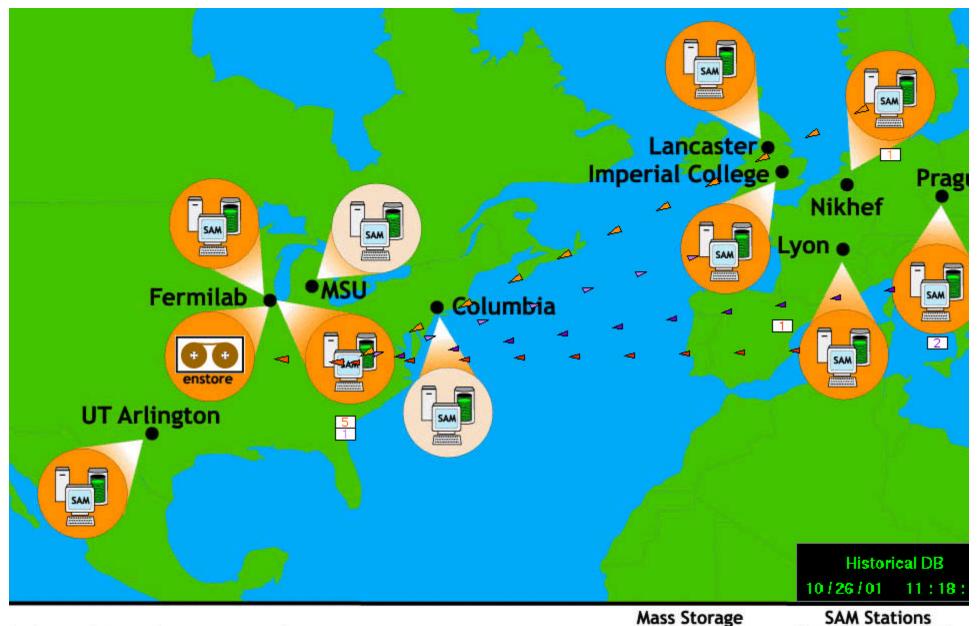
SAM Status

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DORACE
January 17, 2002



SAM Station Deployment

Distributing Data Across Continents



SAM Stations Active Inactive





New Tape Facilities

- Sharing STK PowderHorn silo with other lab customers
 - \approx have 6-7 x 9940 drives for us.
 - ≥ 1000 tape slots
 - All online data and fnal-farm output going there, 80 tapes so far.
- Move next week to our own PowderHorn
 - Robot assembled and tested
 - Will send all data there starting next week.



- Dzero STK PowderHorn silo
 - ∠ Has 9 x 9940 drives now, up to 20 drives.
 - 5500 tape slots total.

Use Existing AML/2 for MC

- M2 tapes are all readonly
- Have 6 LTO drives.
- ≥ 100 GB cartridge
- Very Reliable in tests so far (1 problem in 30 TB)
- All MC and Group generated data is going there. Have written 8 TB so far with no problems.



Storing Group Data in SAM

- Each group has tapes allocated for specific tiers of data: gen, d0gstar, d0sim, reconstructed, root-tuples, others.
- Each group will have a tape allocation limit
- Group data is added with special tier designation "-bygroup" to distinguish it form farm and other production data.
- Groups set up so far include top, higgs, and tauid, bphysics, emid, and np.

SAM Distributed Computing

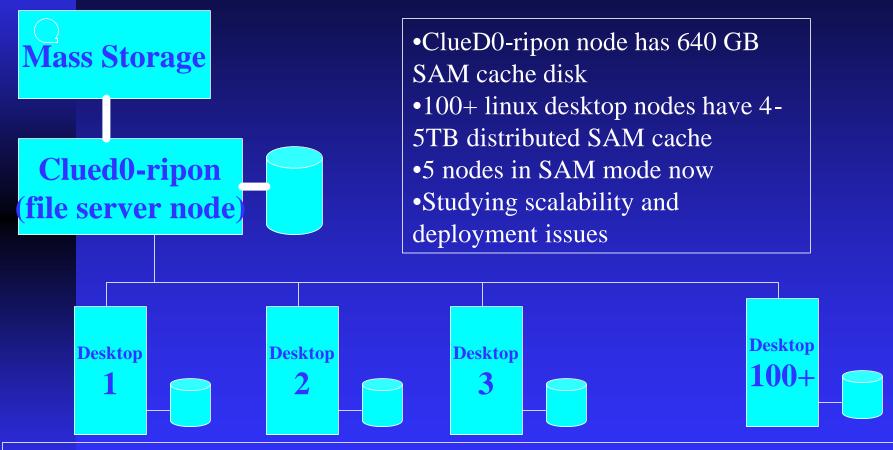
- Fnal-farm
- ClueD0

Distributed Reconstruction Farm



No disks are cross mounted. Worker nodes get files directly from MSS via encp. Data is moved by SAM using rcp from where it is cached to where it is needed.

Distributed Analysis Cluster ClueD0

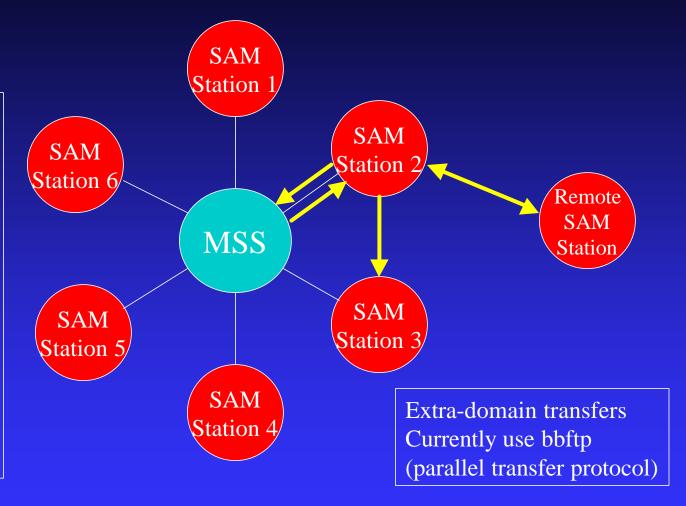


All (tape) data enters the ClueD0 station through the main file server node ClueD0-ripon. The station migrates data as needed and manages the cache distributed among the many desktop constituents.

Site and Global Issues

Station Configuration

- •Replica location
 - •Prefer
 - Avoid
- Forwarding
 - •File stores can be forwarded through other stations
- •Routing (soon)
 - Can set up routes for replica transfers



Workshop Plans for Station Installations

- Will help setup remote stations
- Beforehand need:
 - **WUPS/UPD**
 - ≤ Station name

 - Station node info
 - Station disks

Hope To See You All There!